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10/824,251	04/13/2004	Andreas W. Wendker	APLE.P0004C	6431

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SLATTLER, JOHANSEN, AND ADELI LLP
1875 CENTURY PARK EAST
SUITE 1360
LOS ANGELES, CA 90067

EXAMINER

MYINT, DENNIS Y

ART UNIT	PAPER NUMBER
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2162

DATE MAILED: 10/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/824,251	Applicant(s) WENDKER ET AL.	
	Examiner Dennis Myint	Art Unit 2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 20-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 20-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*. See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>09/02/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 20-51 have been examined.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 20-36, 39-43, and 45-51 are rejected under 35 U.S.C. 102(e) as being anticipated by Jie (hereinafter "Jie") (U.S. Patent Application Publication Number 2005/0102610).

As per claim 20, Jie is directed to a method for creating a description of a user interface that transacts with a database having a data model containing a plurality of entities, the description being created using the data model of the database (Figure 38F; and Paragraph 137, i.e., *The program processes the request and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user inter faces 3865 and present them on the web browser or application program 3864 to user 3862*) and teaches the limitations:

a) "classifying the plurality of entities into entity types, the classifying comprising:

determining whether a first entity in the plurality of entities satisfies a first set of conditions" (Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc., and there are links to the web pages or interfaces represented by the building units*; and Paragraph 0081, i.e., *Figure 5 shows a typical Virtual Library Group Classification based on buildings and titles. For instance, classified Visual Libraries represent the different departments of a university or different Ministries of a Government*); and

classifying the first entity as a first entity type upon determining that the first entity satisfies the first set of conditions (Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc., and there are links to the web pages or interfaces represented by the building units*; and Paragraph 0081, i.e., *Figure 5 shows a typical Virtual Library Group Classification based on buildings and titles. For instance, classified Visual Libraries represent the different departments of a university or different Ministries of a Government*); and

b) "creating the description of the user interface based upon the classification of the plurality of entities" (Paragraph 0081, i.e., *Buildings 501, 502, 503, and **their titles** represent and link the Visual Libraries*).

As per claim 21, Jie teaches the limitations:

“each entity in the data model describes a type of data object associated with the database” (Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc.,*; and Paragraph 137, i.e., *The program processes the request and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user inter faces 3865 and present them on the web browser or application program 3864 to user 3862*); and

“the classifying produces the first entity type for a first group of data objects” (Figure 37: 3702 Library; and Paragraph 0123 , i.e., *hierarchical structure of Visual Libraries, **Visual Bookshelves**, and Visual Books*) and “a second entity type for a second group of data objects” (Figure 37: 3702 Library; and Paragraph 0123 , i.e., *hierarchical structure of Visual Libraries, Visual Bookshelves, and **Visual Books***), “the data objects in the first group of data objects being updated in the database more frequently than the data objects in the second group of data objects” (In the method and system Jie, visual shelves are inherently more frequently updated that visual books because a visual book will be updated only once for a check-out while a visual bookshelf will be updated as many times as books on it are checked out.).

As per claim 22, Jie teaches the limitation:

“wherein the first entity type is a Main entity type and the second entity type is an Enumeration entity type” (Figure 37: 3702 Library; and Paragraph 0123 , i.e.,

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*hierarchical structure of Visual Libraries, **Visual Bookshelves**, and Visual Books;*

Figure 37: 3702 Library; and Paragraph 0123 , i.e., *hierarchical structure of Visual Libraries, Visual Bookshelves, and **Visual Books***).

As per claim 23, Jie teaches the limitation:

“wherein the description is a generic description configured to be interpreted in different platforms or operating environments” (Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code. Said web pages may be the extensions or successors of standard web pages or script language supported by web forms or Xforms*).

As per claim 24, Jie teaches the limitation:

“wherein the description is in extensible Markup Language (XML)” (Paragraph 0068, i.e. *XML, XHTML or other markup languages*).

As per claim 25, Jie teaches the limitation:

“wherein the classifying and creating are performed automatically without human assistance” (Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code*).

As per claim 26, Jie teaches the limitations:

“before the receiving: obtaining a current data model of the database, the current data model reflecting any changes to the database up to when the current data model is

obtained, wherein a current description of the user interface is created using the current data model of the database” (Figure 38F; and Paragraph 137, i.e., *The program processes the request and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user inter faces 3865 and present them on the web browser or application program 3864 to user 3862).*

As per claim 27, Jie teaches the limitations:

“before the classifying, receiving a request from a client that the description be created, wherein receiving the request triggers the classifying of entities into entity types” (Figure 38F; and Paragraph 137, i.e., *The program processes **the request** and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user inter faces 3865 and present them on the web browser or application program 3864 to user 3862).*

Claim 28 is rejected on the same basis as claim 20.

Claim 29 is rejected on the same basis as claim 23.

As per claim 30, Jie teaches the limitations:

“a set of instructions for distributing the description to a client via the network for enabling the client to generate the user interface” (Figure 38G: *Client Side/Server Side*); and

“a set of instructions for providing data from the database to the client for populating the user interface” (Figure 38G: Figure 38F and Paragraph 137, i.e., *The program processes the request and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user interfaces 3865 and present them on the web browser or application program 3864 to user 3862*).

Claim 31 is rejected on the same basis as claim 20.

Claim 32 is rejected on the same basis as claim 23.

Claim 33 is rejected on the same basis as claim 26.

Claim 34 is rejected on the same basis as claim 20.

As per claim 35, Jie teaches the limitations:

“receiving a description of the user interface” (Paragraph 137, i.e., *The program processes **the request** and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user interfaces 3865 and present them on the web browser or application program 3864 to user 3862*), “the

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description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions" (Paragraph 0081, i.e., *Buildings 501, 502, 503, and **their titles** represent and link the Visual Libraries*); and

"generating the user interface using the description of the user interface" (Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code. Said web pages may be the extensions or successors of standard web pages or script language supported by web forms or Xforms*).

As per claim 36, Jie teaches the limitations:

"before the receiving, sending a request that the description be created" "wherein the request triggers the classifying of entities into entity types" (Paragraph 137, i.e., *The program processes **the request** and updates the database 3869 and/or directory hierarchy 3869 of the system. Based on updated database 3869 and/or directory hierarchy 3869, programming codes 3868 updates and generates web pages or user interfaces 3865 and present them on the web browser or application program 3864 to user 3862*; and Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc., and there are links to the web pages or interfaces represented by the building units*; and Paragraph 0081, i.e., *Figure 5 shows a typical Virtual Library Group Classification*

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based on buildings and titles. For instance, classified Visual Libraries represent the different departments of a university or different Ministries of a Government); and

“after the generating, receiving data from the database in order to populate the user interface” (Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code*).

Note that it is inherent that user interfaces are populated with data from databases when they are generated dynamically.

Claim 39 is rejected on the same basis as claim 35.

Claim 40 is rejected on the same basis as claim 33.

Claim 41 is rejected on the same basis as claim 37.

Claim 42 is rejected on the same basis as claim 39.

Claim 43 is rejected on the same basis as claim 26.

Claim 45 is rejected on the same basis as claim 42.

As per 46, Jie teaches the limitations:

“a database having a data model containing a plurality of entities” (Paragraph 137, i.e., *The program processes the request and updates the database 3869*); and

“a server communicatively coupled to the database for creating a description of a user interface that transacts with the database” (Figure 38G: *Client Side/Server Side*), the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type

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upon determination that the first entity satisfies a first set of conditions" (Paragraph 0081, i.e., *Buildings 501, 502, 503, and **their titles** represent and link the Visual Libraries*; Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc., and there are links to the web pages or interfaces represented by the building units*; and Paragraph 0081, i.e., *Figure 5 shows a typical Virtual Library Group Classification based on buildings and titles. For instance, classified Visual Libraries represent the different departments of a university or different Ministries of a Government*; Paragraph 0079, i.e., *classification of Visual Library can be based on the building units such as those of libraries, stories, doors or windows etc., and there are links to the web pages or interfaces represented by the building units*; and Paragraph 0081, i.e., *Figure 5 shows a typical Virtual Library Group Classification based on buildings and titles. For instance, classified Visual Libraries represent the different departments of a university or different Ministries of a Government*).

Claim 47 is rejected on the same basis claim 26.

As per claim 48 Jie teaches the limitation:

"wherein the server is in persistent communication with the database" (Figure 38G: *Client Side/Server Side*; Paragraph 137, i.e., *The program processes the request and updates the database 3869*)

As per claim 49, Jie teaches the limitation:

“wherein the server is communicatively coupled to a first client via a network and distributes the created description to the first client for enabling the first client to generate the user interface” (Figure 38G: *Client Side/Server Side*; Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code*).

As per claim 50, Jie teaches the limitation:

“wherein the server provides the first client an only point of access to the database” (Figure 38G: *Client Side/Server Side*).

As per claim 51, Jie teaches the limitations:

“ wherein the server is communicatively coupled, via the network, to a second client having a different platform or operating environment than the first client, and distributes the created description to the second client for enabling the second client to generate the user interface” (Figure 38G: *Client Side/Server Side*; Paragraph 0066, i.e., *The said web pages or computer user interfaces are generated manually or dynamically with support of computer programming code. Said web pages may be the extensions or successors of standard web pages or script language supported by web forms or Xforms*). Note that Xforms work on any operating system platform.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claim 37, 38, 44, are rejected under 35 U.S.C. 103(a) as being unpatentable over Jie in view of Obiaya (hereinafter "Obiaya") (U.S. Patent Application Publication Number 2003/0084067).

As per claim 37, Jie does not explicitly teach the limitation: "sending preferences for the user interface, the preferences being utilized in creating the description".

Obiaya teaches the limitation:

"sending preferences for the user interface, the preferences being utilized in creating the description" (Paragraph 0039, i.e., *The user interface modules further generates displays specifically configured to match a user's preferences and predefined information requirements*).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the method of Jie, which dynamically generates user interfaces, with the method of Obiaya, which incorporates user preferences in generating user interfaces, so that the combined method would send preferences for the user interface and the preferences will be utilized in creating the description. One would have been motivated to do so in order to provide *seamless scalability* (Paragraph 0010).

As per claim 38, Obiaya teaches the limitation:

"before the receiving: sending authentication information" (Paragraph 0038, i.e., *authenticates the user*).

Claim 44 is rejected on the same basis as claim 37.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as follows.

U.S. Patent Application Publication Number 2004/0054546 (Levin)

U.S. Patent Application Publication Number 2004/0117383 (Lee)

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Myint whose telephone number is (571) 272-5629. The examiner can normally be reached on 8:30AM-5:30PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-5629.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dennis Myint

AU-2162

Camyru
primary Examiner
Cam y Thuong